

Title (en)
PROBE

Title (de)
SONDE

Title (fr)
SONDE

Publication
EP 2633796 A4 20161214 (EN)

Application
EP 11836127 A 20111020

Priority
• JP 2010239447 A 20101026
• JP 2011074184 W 20111020

Abstract (en)
[origin: EP2633796A1] An optical probe has, independently, an irradiation light guide path that irradiates irradiation light and a received light guide path for acquiring radiated light, and efficiently acquires the radiated light to be measured. The probe (10) has a first optical fiber (1) that configures the irradiation light guide path for guiding the irradiation light, which is independent from a second optical fiber (2) that configures the received light guide path for acquiring the radiated light from the living body. It also has a condensing lens (3) that receives that irradiation light existing the first optical fiber and emits same on the side of the area to be measured and receives radiated light radiated from the area to be measured and concentrates same on the side of the first and second optical fibers. The central axis of the exit end of the first optical fiber is deviated and/or inclined with respect to the optical axis of the condensing lens, moving reflected light at the condensing lens surface away from the center of the light-receiving end of the second optical fiber while moving radiated light concentrated by the condensing lens closer to the center of the light-receiving end of the second optical fiber.

IPC 8 full level
A61B 1/00 (2006.01); **A61B 5/00** (2006.01); **G01N 21/64** (2006.01); **G02B 23/24** (2006.01)

CPC (source: EP US)
A61B 5/0071 (2013.01 - EP US); **A61B 5/0084** (2013.01 - EP US); **G01N 21/01** (2013.01 - US); **G01N 21/645** (2013.01 - EP US); **G02B 23/2469** (2013.01 - EP US); **G01N 2021/6484** (2013.01 - EP US)

Citation (search report)
• [X] US 7235047 B2 20070626 - MACAULAY CALUM E [CA], et al
• [I] JP 2010088665 A 20100422 - OLYMPUS CORP
• [I] JP 2001174712 A 20010629 - OLYMPUS OPTICAL CO
• See references of WO 2012056991A1

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EP2653090A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2633796 A1 20130904; EP 2633796 A4 20161214; CN 103237489 A 20130807; CN 103237489 B 20160803; JP 5831456 B2 20151209; JP WO2012056991 A1 20140512; US 2013209034 A1 20130815; US 8942523 B2 20150127; WO 2012056991 A1 20120503

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EP 11836127 A 20111020; CN 201180051529 A 20111020; JP 2011074184 W 20111020; JP 2012540808 A 20111020; US 201113881928 A 20111020